

Amendments to the Specification:

Please add the following new paragraph after the paragraph ending at page 1, line 13:

BRIEF SUMMARY

A queue descriptor including a head pointer pointing to a first element in a queue and a tail pointer pointing to a last element in the queue is stored in a memory. In response to a command to perform an enqueue or dequeue operation with respect to the queue, one of either the head pointer or tail pointer is fetched from the memory to a cache. Portions of the queue descriptor modified by the operation are returned to the memory from the cache.